



Application for Certification
Part 1

2017 ModelYear

Durability Group: HCRXGPGENF05
Evaporative Familie(s): HCRXR0116PKB
HCRXR0118PPB, HCRXR0118PPA

Test Group: HCRXJ02.45PA

Four Stroke, Otto Cycle, Gasoline Fueled, Ported FI

Ceramic Monolith Pd, Rh Close Coupled Catalyst

2.4 Liter

LDT/LDV

Applicable Standards:

50 State - BIN 110 (ULEV II)

CCV - MSAT Compliant

Vehicles Covered:

Jeep Renegade 4x2

Jeep Cherokee FWD

Jeep Cherokee 4x4

Chrysler 200 FWD

Vehicle(s) Run:

VID 1 config., Vehicle ID V4KLJ4102 (Exhaust)

VID 2 config., Vehicle ID L4PFD6873 (EVAP)

VID 3 config., Vehicle ID K2PFD4647 (EVAP)

VID 4 config., Vehicle ID L2PFD3317 (EVAP)



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Section 1 Correspondence and Communication

For questions dealing with the Part I application for this Test Group contact:

| <u>Name</u> | <u>Title</u> | <u>Responsibility</u> | <u>Phone</u> | <u>E-mail</u> | <u>Fax</u> |
|-----------------|----------------------------|------------------------|--------------|--|--------------|
| Beth Borland | Certification Engineer | Application Submission | 248.512.3438 | beth.borland@fcagroup.com | 248.576.7928 |
| Steve R. Mazure | Manager Certification Team | Certification Program | 248.576.5471 | steve.mazure@fcagroup.com | 248.576.7928 |

For a complete listing of all Correspondence and Communication Information for FCA US LLC, please see:
"Common Section Book - Section 1 Correspondence and Communication"

Section 2 Durability Group Description

Durability Group Name: HCRXGPGENF05

For a complete description of the Durability Group Description please see:
"Common Section Book - Section 2. Durability Group Description"

Section 3 Evaporative/Refueling Family Description

Evaporative/Refueling Family Name(s):
HCRXR0116PKB
HCRXR0118PPB
HCRXR0118PPA

For a complete description of the Evaporative/Refueling Family Description please see:
"Common Section Book - Section 3. Evaporative/Refueling Family Description "

For ORVR Agency Review Sign Off please see:
"Common Section Book - Section 16. Agency Approvals"



Section 4 **Durability Procedure Description**

Durability Group: HCRXGPGENF05

Durability Provision Statement:

Based on FCA US LLC 's good engineering judgement, all the vehicles described in this Application for Certification comply with all applicable intermediate and full useful life standards.

For a complete description of the Durability Procedure please see:

"Common Section Book - Section 16. Durability Procedure Description "

Indicate if aged components were used.

Aged Components were used

Indicate whether additive or multiplicative DF's were used.

N/A

List all DF's calculated at both full and intermediate useful life

EPA - Reference VERIFY (hard copies of all VERIFY Reports retained in-house)

And applicable standards (test results and vehicle description).

Carb - Reference Cert Review Sheet

Evaporative/Refueling Family:

HCRXR0116PKB

HCRXR0118PPB

HCRXR0118PPA

For a complete description of the Durability Procedure please see:

"Common Section Book - Section 16. Durability Procedure Description "

Indicate if aged components were used.

Yes - Bench Aging

Indicate whether additive or multiplicative DF's were used.

Additive

List all DF's calculated at both full and intermediate useful life

EPA - Reference VERIFY (hard copies of all VERIFY Reports retained in-house)

And applicable standards (test results and vehicle description).

Carb - Reference Cert Review Sheet

Section 5 **Test Group Description**

Test Group Name:

HCRXJ02.45PA

Engine displacements covered:

2.4 Liter

Arrangement and number of cylinders:

I-4

Vehicle classes covered:

LDT/LDV

Emission standards class:

BIN 110/CCV and MSAT Compliant

AB71 Qualified Vehicles:

No



Section 8 Emission Testing Waiver Statements

Below is a list clearly identifying the standards applicable to this Test Group for which emission testing was not performed. All FCA US LLC applicable vehicles will conform with the emission standards which emission data is not being provided, as allowed under 40 CFR 86.1829-01 or 86.1810-01.

Particulates HCHO, CST, ASM, NMOG, IM

Section 9 OBD Description

For a complete description of the OBD Description please see: "Common Part 1 Section 16. OBD Description"

For OBD Agency Approvals please see: "Common Part 1 Section 16. Agency Approvals"

OBD Demonstration Compliance Statement: This Test Group meets the full intent of both the Clean Air Act as amended in 1990, section 202(m), and the applicable federal OBD regulations contained in 40 CFR §86.005-17 and 40 CFR §86.1806-01, including a reference to those provisions pertaining to deficiencies in the limited instances where an OBD II system that complies with 1968.2 does not comply with all the requirements of section 1968.1.

Section 10 Description of Alternate - Fueled Vehicles

Vehicles in this test group have dual fuel capabilities. The vehicles can run on either gasoline or ethanol. For certification purposes E85 is used for emission testing and E10 is used for evaporative testing.

FCA US LLC

Test Group - HCRXJ02.45PA

| EPA COMP CODE | AA-100 | AA-200 | AA-250 | AA-300 | AA-350 | AA-400 |
|---------------------------------|--------|--------|--------|--------|--------|--------|
| E10:Powertrain Control Module | | | | | | |
| E11:Transmission Control Module | | | | | | |
| E17:ABS Control Module | | | | | | |
| F03:Plastic Fuel Tank (Partial) | | | | | | |
| F04:Plastic Fuel Tank Assembly | | | | | | |
| F05:Fuel Pump | | | | | | |
| F10:Fuel Level Sending Unit | | | | | | |
| F16:Fuel Tank Filler Cap | | | | | | |
| F17:Fuel Tank Check Valve | | | | | | |
| F21:Fuel Tank Rollover Valve | | | | | | |
| F29:Fuel Tank Pressure Sensor | | | | | | |
| F36:Fuel Filler Receptacle | | | | | | |
| F40:Throttle Body | | | | | | |
| F50:Fuel Injector | | | | | | |
| F55:Fuel Pressure Regulator | | | | | | |
| F64:Fuel Pump Module | | | | | | |
| F70:Evap. Canister Assembly | | | | | | |

| EPA COMP CODE | AA-100 | AA-200 | AA-250 | AA-300 | AA-350 | AA-400 |
|---|--------|--------|--------|--------|--------|--------|
| F73:ORVR Control Valve | | | | | | |
| F79:ESIM (Evaporative System Integrity Monitor) | | | | | | |
| H08:Exhaust Manifold Catalytic Converter | | | | | | |
| I05:Spark Plug | | | | | | |
| L01:Heated Oxygen Sensor | | | | | | |
| L12:Accelerator Pedal Position Sensor | | | | | | |
| L13:Accelerator Pedal Assembly | | | | | | |
| L15:Camshaft Position Sensor | | | | | | |
| L16:Crankshaft Position Sensor | | | | | | |
| L20:Knock Sensor | | | | | | |
| L25:Vehicle Speed Sensor | | | | | | |
| M01:Engine Coolant Temp. Sensor | | | | | | |
| M04:Intake Air Temperature Sensor | | | | | | |
| M10:Ambient Temperature Sensor | | | | | | |
| N24:Oil Pressure Sensor | | | | | | |
| N25:Engine Oil Cooler | | | | | | |
| N50:Engine Thermostat | | | | | | |
| R11:Transmission Oil Cooler Bypass Valve | | | | | | |
| T27:Transmission Pressure Sensor | | | | | | |
| T53:Transmission Range Sensor | | | | | | |

| EPA COMP CODE | AA-100 | AA-200 | AA-250 | AA-300 | AA-350 | AA-400 |
|-----------------------------------|--------|--------|--------|--------|--------|--------|
| V01:PCV Valve | | | | | | |
| V05:MAP Sensor | | | | | | |
| V07:Mass Airflow Sensor | | | | | | |
| V63:Evap. Can. Purge Solenoid | | | | | | |
| V80:Active Grill Shutter Actuator | | | | | | |
| Z01:VECI Label | | | | | | |

Section11-100 Engine Parts List

FCA US LLC

Test Group :HCRXJ02.45PA

Durability Group: HCRXGPGENF05 **Standard Fed:** Bin110+ **Cal:** N/A

| Trans. Code | Sales Code | Transfer Case Sales Code/Drive Code | No. of Gears | Over Drive Gear Ratio | Drive Gear Ratio | Engine Sales Code | Torque Code | Torque Size | Conv Clutch Control Type Calib/Special Features |
|-------------|------------|-------------------------------------|--------------|-----------------------|--|-------------------|-------------|-------------|---|
| L9 | DFH | 2F | 9 | 0.479 | 4.7,2.842,1.909,1.382,1.0,0.808,0.699,0.58,0.479 | ED6 | NC | 275 MM | Electronically shifted data on file |
| L9 | DFH | 2F | 9 | 0.479 | 4.7,2.842,1.909,1.382,1.0,0.808,0.699,0.58,0.479 | ED6 | UC | 242MM | Electronically shifted data on file |
| L9 | DFH | DK2 / 4F | 9 | 0.479 | 4.7,2.842,1.909,1.382,1.0,0.808,0.699,0.58,0.479 | ED6 | UC | 242MM | Electronically shifted data on file |
| L9 | DFH | 2F | 9 | 0.479 | 4.7,2.842,1.909,1.382,1.0,0.808,0.699,0.58,0.479 | ED6 | OC | 248 MM | Electronically shifted data on file |

Section12-200 Transmission

FCA US LLC

HCRXJ02.45PA

Durability Group:
HCRXGPGENF05

Standard Fed: Bin110+ Cal: N/A

Asterisk (*) Indicates Manufacturer has elected to certify at this higher test weight class as allowed by CFR 86.1831-01

Engine Code AA-100 Eng Displ: 2.4L (ED6) Evap Family - Evap Code: HCRXR0116PKB-12.7

| Model | Carline Name | Model Qualifier | Opt | Trans. / Tr.Case | Torq. Conv./ Catalyst Identifier | GVW | LVW TWC Drive Curb | ALVW TWC Drive Curb | Axle / OTGR | N/V | Tire | Tire Mfr. | Tire Constr.Cd. | Elec Dyno Q.C. | Elec Dyno RLHP | Dyno Coeff 70A | Dyno Coeff 70 B | Dyno Coeff 70C | Dyno Coeff 20A | Dyno Coeff 20B | Dyno Coeff 20C |
|--------|--------------------|-----------------|-----|------------------|----------------------------------|------|----------------------|---------------------|-------------|------|---------------|-----------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|
| BUTA74 | Jeep: Renegade 4x2 | | XKN | L9 - FWD DFH | NC B2.4b | 4197 | 3500 1942 3188 | | 1.79 | 22.8 | 215/60R17 TTU | TZC | 322902 | 16.37 | 13.2 | 23.64000 | 0.37090 | 0.02286 | 26.00000 | 0.40800 | 0.02515 |
| | | | | | | | | | 1.79 | 22.3 | 225/55R18 TWL | TZA | HS1566 | 16.28 | 13.3 | 21.10000 | 0.53450 | 0.02083 | 23.21000 | 0.58800 | 0.02291 |
| | | | | | | | | | 1.79 | 22.9 | 215/65R16 TM9 | TZC | 322493 | 16.22 | 13.4 | 21.70000 | 0.50630 | 0.02128 | 23.87000 | 0.55690 | 0.02341 |
| | | | | | | | | | 1.79 | 22.8 | 215/60R17 TTU | TZD | CW21 | 16.01 | 13.5 | 23.10000 | 0.48210 | 0.02174 | 25.41000 | 0.53030 | 0.02391 |
| | | | | | | | | | 1.79 | 22.3 | 225/55R18 TWL | TZL | K3B | 15.99 | 13.6 | 22.58000 | 0.52100 | 0.02122 | 24.84000 | 0.57310 | 0.02334 |
| | | | | | | | | | 1.79 | 22.8 | 215/60R17 TTU | TZL | NP OTS | 15.80 | 13.7 | 23.49000 | 0.54740 | 0.02081 | 25.84000 | 0.60210 | 0.02289 |

Engine Code AA-200 Eng Displ: 2.4L (ED6) Evap Family - Evap Code: HCRXR0118PPB-15.8

| Model | Carline Name | Model Qualifier | Opt | Trans. / Tr.Case | Torq. Conv./ Catalyst Identifier | GVW | LVW TWC Drive Curb | ALVW TWC Drive Curb | Axle / OTGR | N/V | Tire | Tire Mfr. | Tire Constr.Cd. | Elec Dyno Q.C. | Elec Dyno RLHP | Dyno Coeff 70A | Dyno Coeff 70 B | Dyno Coeff 70C | Dyno Coeff 20A | Dyno Coeff 20B | Dyno Coeff 20C |
|--------|--------------------|-----------------|-----|------------------|----------------------------------|------|----------------------|---------------------|-------------|------|---------------|-----------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|
| KLTA74 | Jeep: Cherokee FWD | | XKN | L9 - FWD DFH | UC B2.4b | 5050 | 4000 2172 3668 | | 1.79 | 22.5 | 225/60R17 TRA | TZF | ZB783Q | 19.00 | 13.0 | 20.34000 | 0.41400 | 0.02271 | 22.37000 | 0.45540 | 0.02498 |
| | | | | | | | | | 1.79 | 22.2 | 225/55R18 TWL | TZC | 304002 | 18.18 | 13.6 | 24.73000 | 0.41010 | 0.02279 | 27.20000 | 0.45110 | 0.02507 |

Engine Code AA-250 Eng Displ: 2.4L (ED6) Evap Family - Evap Code: HCRXR0118PPB-15.8

| Model | Carline Name | Model Qualifier | Opt | Trans. / Tr.Case | Torq. Conv./ Catalyst Identifier | GVW | LVW TWC Drive Curb | ALVW TWC Drive Curb | Axle / OTGR | N/V | Tire | Tire Mfr. | Tire Constr.Cd. | Elec Dyno Q.C. | Elec Dyno RLHP | Dyno Coeff 70A | Dyno Coeff 70 B | Dyno Coeff 70C | Dyno Coeff 20A | Dyno Coeff 20B | Dyno Coeff 20C |
|--------|--------------------|-----------------|-----|------------------|----------------------------------|------|----------------------|---------------------|-------------|------|---------------|-----------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|
| KLTA74 | Jeep: Cherokee FWD | | XKN | L9 - FWD DFH | UC B2.4b | 5050 | 4000 2172 3668 | | 1.79 | 22.5 | 225/60R17 TRA | TZF | ZB783Q | 19.00 | 13.0 | 20.34000 | 0.41400 | 0.02271 | 22.37000 | 0.45540 | 0.02498 |
| | | | | | | | | | 1.79 | 22.2 | 225/55R18 TWL | TZC | 304002 | 18.18 | 13.6 | 24.73000 | 0.41010 | 0.02279 | 27.20000 | 0.45110 | 0.02507 |

Engine Code AA-300**Eng Displ: 2.4L (ED6)****Evap Family - Evap Code: HCRXR0118PPB-15.8**

| Model | Carline Name | Model Qualifier | Opt | Trans. / Tr.Case | Torq. Conv./ Catalyst Identifier | GVW | LVW TWC Drive Curb | ALVW TWC Drive Curb | Axle / OTGR | N/V | Tire | Tire Mfr. | Tire Constr.Cd. | Elec Dyno Q.C. | Elec Dyno RLHP | Dyno Coeff 70A | Dyno Coeff 70 B | Dyno Coeff 70C | Dyno Coeff 20A | Dyno Coeff 20B | Dyno Coeff 20C |
|--------|--------------------|-----------------|-----|-----------------------|----------------------------------|------|----------------------|---------------------|-------------|------|---------------|-----------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|
| KLJA74 | Jeep: Cherokee 4X4 | | XKN | L9 - AWD DFH / DK2-4F | UC B2.4b | 5500 | 4250 2281 4035 | | 1.79 | 21.9 | 225/65R17 TRF | TZF | ZB788Q | 18.69 | 14.1 | 26.15000 | 0.45470 | 0.02268 | 28.77000 | 0.50020 | 0.02495 |
| | | | | | | | | | 1.79 | 21.5 | 225/60R18 TWS | TZC | 303856 | 18.33 | 14.4 | 27.85000 | 0.47350 | 0.02245 | 30.64000 | 0.52090 | 0.02470 |

Engine Code AA-350**Eng Displ: 2.4L (ED6)****Evap Family - Evap Code: HCRXR0118PPB-15.8**

| Model | Carline Name | Model Qualifier | Opt | Trans. / Tr.Case | Torq. Conv./ Catalyst Identifier | GVW | LVW TWC Drive Curb | ALVW TWC Drive Curb | Axle / OTGR | N/V | Tire | Tire Mfr. | Tire Constr.Cd. | Elec Dyno Q.C. | Elec Dyno RLHP | Dyno Coeff 70A | Dyno Coeff 70 B | Dyno Coeff 70C | Dyno Coeff 20A | Dyno Coeff 20B | Dyno Coeff 20C |
|--------|--------------------|-----------------|-----|-----------------------|----------------------------------|------|----------------------|---------------------|-------------|------|---------------|-----------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|
| KLJA74 | Jeep: Cherokee 4X4 | | XKN | L9 - AWD DFH / DK2-4F | UC B2.4b | 5500 | 4250 2281 4035 | | 1.79 | 21.9 | 225/65R17 TRF | TZF | ZB788Q | 18.69 | 14.1 | 26.15000 | 0.45470 | 0.02268 | 28.77000 | 0.50020 | 0.02495 |
| | | | | | | | | | 1.79 | 21.5 | 225/60R18 TWS | TZC | 303856 | 18.33 | 14.4 | 27.85000 | 0.47350 | 0.02245 | 30.64000 | 0.52090 | 0.02470 |

Engine Code AA-400**Eng Displ: 2.4L (ED6)****Evap Family - Evap Code: HCRXR0118PPA-15.8**

| Model | Carline Name | Model Qualifier | Opt | Trans. / Tr.Case | Torq. Conv./ Catalyst Identifier | GVW | LVW TWC Drive Curb | ALVW TWC Drive Curb | Axle / OTGR | N/V | Tire | Tire Mfr. | Tire Constr.Cd. | Elec Dyno Q.C. | Elec Dyno RLHP | Dyno Coeff 70A | Dyno Coeff 70 B | Dyno Coeff 70C | Dyno Coeff 20A | Dyno Coeff 20B | Dyno Coeff 20C |
|--------|---------------|-----------------|-----|------------------|----------------------------------|------|----------------------|---------------------|-------------|------|---------------|-----------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|
| UFCA41 | Chrysler: 200 | | XKN | L9 - FWD DFH | OC B2.4b | 4612 | 3750 2079 3467 | | 1.79 | 23.5 | 215/55R17 TM1 | TZB | ZC888Q | 23.28 | 10.0 | 20.69000 | 0.11030 | 0.01946 | 22.76000 | 0.12130 | 0.02141 |
| | | | | | | | | | 1.79 | 23.5 | 215/55R17 TMA | TZA | 2X7020F | 22.92 | 10.1 | 20.98000 | 0.12530 | 0.01951 | 23.08000 | 0.13780 | 0.02146 |
| | | | | | | | | | 1.79 | 23.5 | 235/45R18 TSU | TZB | ZC805Q | 21.33 | 10.9 | 25.95000 | 0.07360 | 0.02081 | 28.55000 | 0.08100 | 0.02289 |
| | | | | | | | | | 1.79 | 23.5 | 215/55R17 TKE | TZN | CCUFA4E | 21.16 | 11.0 | 26.60000 | 0.12670 | 0.01974 | 29.26000 | 0.13940 | 0.02171 |
| | | | | | | | | | 1.79 | 23.4 | 235/45R18 TX5 | TZN | CCUFB4A | 20.64 | 11.2 | 28.59000 | 0.14080 | 0.01948 | 31.45000 | 0.15490 | 0.02143 |
| | | | | | | | | | 1.79 | 23.4 | 235/45R18 TSQ | TZL | CAF103G | 20.33 | 11.4 | 29.83000 | 0.15190 | 0.01927 | 32.81000 | 0.16710 | 0.02120 |
| | | | | | | | | | 1.79 | 23.4 | 235/40R19 TS7 | TZN | CCUFC6E | 19.68 | 11.8 | 32.14000 | 0.15700 | 0.01937 | 35.35000 | 0.17270 | 0.02131 |
| | | | | | | | | | 1.79 | 23.1 | 245/40R19 TAR | TZP | A27004 | 19.29 | 12.0 | 35.59000 | 0.13750 | 0.01909 | 39.15000 | 0.15130 | 0.02100 |
| | | | | | | | | | | | | | | | | | | | | | |

FCA US LLC

Test Group: HCRXJ02.45PA - Engine Code Index

Durability Group:
HCRXGPGENF05

Standard : Bin110+ / NA Vehicle Class: LDV (0-5750 LVW) / NA

Engine Code: AA-100 - 2.4L ED6 BU FWD w/DFH, 3.734 FDR FFV CCV

| Engine Code | RC # | Date | Engine | Carline | Price Class | Trans. Configuration | GVW Min. | GVW Max. | Test Wt. Min. | Test Wt. Max | Drive Code | Sales Areas |
|-------------|----------|------|----------|---------|-------------|---|----------|----------|---------------|--------------|------------|-------------|
| AA-100 | Original | | 2.4L/ED6 | BU | | L9/ Automatic L9 - Lockup/Automatic/9-speed | 4197 | 4197 | 3500 | 3500 | FWD | NAS |

Engine Code: AA-200 - 2.4L ED6 KL FWD w/DFH, 3.734 FDR w/AGS FFV

| Engine Code | RC # | Date | Engine | Carline | Price Class | Trans. Configuration | GVW Min. | GVW Max. | Test Wt. Min. | Test Wt. Max | Drive Code | Sales Areas |
|-------------|----------|------|----------|---------|-------------|---|----------|----------|---------------|--------------|------------|-------------|
| AA-200 | Original | | 2.4L/ED6 | KL | | L9/ Automatic L9 - Lockup/Automatic/9-speed | 5050 | 5050 | 4000 | 4000 | FWD | NAS |

Engine Code: AA-250 - 2.4L ED6 KL FWD w/DFH, 3.734 FDR w/o AGS FFV

| Engine Code | RC # | Date | Engine | Carline | Price Class | Trans. Configuration | GVW Min. | GVW Max. | Test Wt. Min. | Test Wt. Max | Drive Code | Sales Areas |
|-------------|----------|------|----------|---------|-------------|---|----------|----------|---------------|--------------|------------|-------------|
| AA-250 | Original | | 2.4L/ED6 | KL | | L9/ Automatic L9 - Lockup/Automatic/9-speed | 5050 | 5050 | 4000 | 4000 | FWD | NAS |

Engine Code: AA-300 - 2.4L ED6 KL AWDw/DFH,1-spd PTU,3.734 FDR w/AGS FFV

| Engine Code | RC # | Date | Engine | Carline | Price Class | Trans. Configuration | GVW Min. | GVW Max. | Test Wt. Min. | Test Wt. Max | Drive Code | Sales Areas |
|-------------|----------|------|----------|---------|-------------|---|----------|----------|---------------|--------------|------------|-------------|
| AA-300 | Original | | 2.4L/ED6 | KL | | L9/ Automatic L9 - Lockup/Automatic/9-speed | 5500 | 5500 | 4250 | 4250 | AWD | NAS |

Engine Code: AA-350 - 2.4L ED6 KL AWDw/DFH,1-spd PTU,3.734 FDRw/oAGS FFV

| Engine Code | RC # | Date | Engine | Carline | Price Class | Trans. Configuration | GVW Min. | GVW Max. | Test Wt. Min. | Test Wt. Max | Drive Code | Sales Areas |
|-------------|----------|------|----------|---------|-------------|---|----------|----------|---------------|--------------|------------|-------------|
| AA-350 | Original | | 2.4L/ED6 | KL | | L9/ Automatic L9 - Lockup/Automatic/9-speed | 5500 | 5500 | 4250 | 4250 | AWD | NAS |

Engine Code: AA-400 - 2.4L ED6 UF FWD,3.734 FDR w/AGS FFV

| Engine Code | RC # | Date | Engine | Carline | Price Class | Trans. Configuration | GVW Min. | GVW Max. | Test Wt. Min. | Test Wt. Max | Drive Code | Sales Areas |
|-------------|----------|------|----------|---------|-------------|---|----------|----------|---------------|--------------|------------|-------------|
| AA-400 | Original | | 2.4L/ED6 | UF | | L9/ Automatic L9 - Lockup/Automatic/9-speed | 4612 | 4612 | 3750 | 3750 | FWD | NSA |

Test Group: HCRXJ02.45PA - No Engine Code Changes

Durability Group: HCRXGPGENF05 Standard Fed: Bin110 Cal: N/A

| RC # | Submission Date | Description |
|------|-----------------|-------------|
|------|-----------------|-------------|

No Results Found

Section12-500 Engine Code Index

Vehicle Parameters

Valves per cylinder

Engine
2.4L - 4

Test Parameters

SIL usage:

See shift schedule table

Cooling fan configuration:

Models
All - One fan center front

Addition Cooling:

Models
All - None

Evaporative Testing Parameters:

Model
BU – 116 grams
KL – 118 grams
UF – 118 grams

Fuel temperature Profile:

Models
All – BU/KL Models – eKL FFV
All –UF Models – ePF FFV

Special Test Procedure:

Models
All - none



May 17, 2016

Mr. Joel Dalton
Certification and Compliance Division
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Dear Mr. Dalton:

Re: 2017 Model Year LDV/LDT Certificate of Conformity Request

FCA US LLC requests a 2017 MY Certificate of Conformity for the 2.4L Tier 3 BIN 110 Federal and 50-State CCV test group HCRXJ02.45PA with evaporative families HCRXR0116PKB, HCRXR0118PPB and HCRXR0118PPA. This test group is being certified to Tier 3, BIN 110 standards, MSAT standards, and qualifies to be certified by the State of California's "Cleanest Vehicle" requirements and to be counted as ULEV 2 in California. FCA US LLC agrees to meet the Tier 3, BIN 110 standards, and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group HCRXJ02.45PA. FCA US LLC agrees that the exhaust and evaporative emission standards listed below and in the application for certification apply to both certification and in-use vehicles according to the provisions of 40 CFR, Parts 86 and 88, as applicable. FCA US LLC also elects to follow GHG path 86.1818(f) (1). The FTP emission standards for this LDT/LDV test group are as follows:

| <u>Emission Standards</u> | | | <u>NMOG+NOx</u> | <u>CO</u> | <u>HCHO</u> | Highway <u>NMOG+NOx</u> |
|------------------------------|-----------|------|-----------------|--------------|-------------|----------------------------|
| Federal BIN 110 | E0 & E85 | 120K | 0.110 | 2.1 | 0.004 | 0.110 |
| <u>Evaporative Standards</u> | | | <u>3-Day</u> | <u>2-Day</u> | <u>R/L</u> | <u>ORVR</u> |
| HCRXR0116PKB | E0 & E10* | 120K | 0.65 | 0.85 | 0.05 | 0.20 |
| HCRXR0118PPB | E0 & E10* | 120K | 0.400 | 0.400 | 0.05 | 0.20 |
| HCRXR0118PPA | E0 & E10* | 120K | 0.300 | 0.300 | 0.05 | 0.20 |

* No ORVR for E10.

Initial combined Gasoline CREE for HCRXJ02.45PA test group is = 293.8

Initial combined Ethanol CREE for HCRXJ02.45PA test group is = 282.8

The California Executive Order is A-009-1320 and models are as follows:

Division / Model

Jeep Renegade 4x2
Jeep Cherokee FWD
Jeep Cherokee 4x4
Chrysler 200 FWD

If there are any questions regarding this submission, please contact Beth Borland at (248) 512-3438 or Steve Mazure at (248) 576-5471.

Sincerely,
FCA US LLC

Steve Mazure, Manager
Vehicle Certification
srm/bab



May 17, 2016

Ms. Annette Hebert, Chief
ECARS Division
Air Resources Board
9480 Telstar Avenue, Suite 4
El Monte, California 91731

Dear Ms. Hebert:

Re: 2017 Model Year PC/LDT Executive Order Request (#A-009-1320)

FCA US LLC requests a 2017 MY Executive Order for the 2.4L 50-State CCV test group HCRXJ02.45PA with evaporative families HCRXR0116PKB, HCRXR0118PPB and HCRXR0118PPA. This test group is being certified to Tier 3 BIN 110, MSAT standards, and qualifies to be certified by the State of California's "Cleanest Vehicle" requirements and to be counted as ULEV 2 in California. FCA US LLC agrees to meet the Tier 3 BIN 110 emission standards and the regulations applicable to such vehicles during the full useful lives of the vehicles in test group HCRXJ02.45PA. FCA US LLC agrees that the exhaust and evaporative emission standards listed below and in the application for certification apply to both certification and in-use vehicles according to the provisions of 40 CFR, Parts 86 and 88, as applicable. FCA US LLC also elects to follow GHG path 86.1818(f) (1). The FTP emission standards for this PC/LDT test group are as follows:

| <u>Emission Standards</u> | | | <u>NMOG+NO_x</u> | <u>CO</u> | <u>HCHO</u> | Highway <u>NMOG+NO_x</u> |
|---------------------------|----------|------|----------------------------|-----------|-------------|---------------------------------------|
| California CCV | E0 & E85 | 120K | 0.110 | 2.1 | 0.004 | 0.110 |

| <u>Evaporative Standards</u> | | | <u>3-Day</u> | <u>2-Day</u> | <u>R/L</u> | <u>ORVR</u> |
|------------------------------|-----------|------|--------------|--------------|------------|-------------|
| HCRXR0116PKB | E0 & E10* | 150K | 0.65 | 0.85 | 0.05 | 0.20 |
| HCRXR0118PPB | E0 & E10* | 150K | 0.400 | 0.400 | 0.05 | 0.20 |
| HCRXR0118PPA | E0 & E10* | 150K | 0.300 | 0.300 | 0.05 | 0.20 |

* No ORVR for E10. ORVR useful life is 120K.

Initial combined Gasoline CREE for HCRXJ02.45PA test group is = 293.8

Initial combined Ethanol CREE for HCRXJ02.45PA test group is = 282.8

FCA US LLC attests that the test and production vehicles do not have defeat devices; that all AECDs have been declared and described in the Application; and that test and production vehicles do not have alternate maps.

If there are any questions regarding this submission, please contact Beth Borland at (248) 512-3438 or Steve Mazure at (248) 576-5471.

Sincerely,

FCA US LLC

Steve Mazure, Manager
Vehicle Certification

c: L. Benedict
srm/bab

USEPA Fee Form

General Information

| | |
|--------------------|---|
| Date: | <input type="text" value="02/22/2016"/> |
| Process Code: | <input type="text" value="Submit New Filing Fee Form"/> |
| Manufacturer Code: | <input type="text" value="CRX"/> |
| Manufacturer Name: | <input type="text" value="FCA USLLC"/> |

Manufacturer Contact

| | |
|--|---|
| Name: | <input type="text" value="Kelli Myers"/> |
| Email Address: | <input type="text" value="kelli.myers@fcagroup.com"/> |
| Phone: | <input type="text" value="248-576-5457"/> |
| Calendar Year complete application submitted to EPA: | <input type="text" value="2016"/> |
| Engine Family / Evaporative Family / Test Group: | <input type="text" value="HCRXJ02.45PA"/> |

Certificate Request Type (Industry Sector Code)

- | | |
|--|---|
| <input checked="" type="radio"/> On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V) | <input type="radio"/> Nonroad CI (L) |
| <input type="radio"/> On-Highway HDE Dyno Cert (Federal) (E, H) | <input type="radio"/> Nonroad SI (B, S) |
| <input type="radio"/> On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V) | <input type="radio"/> Locomotive (G, K) |
| <input type="radio"/> On-Highway Motorcycle (C) | <input type="radio"/> All Nonroad Recreational, excluding Marine engines (X, Y) |
| <input type="radio"/> On-Highway HDV Evap (F) | <input type="radio"/> All Marine (Including IMO) (M, N, W) |
| <input type="radio"/> On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V) | <input type="radio"/> Component Certification for Evaporative Emissions (P) |
| <input type="radio"/> On-Highway HDE Dyno Cert (California-Only) (E, H) | |

IMO Name (Required for dual US/IMO Marine Only):

ICI VIN Number (Required for ICIs Only):

Do you qualify for a Reduced Fee (RF)?

What is the total number of vehicles, engines, or units covered?:

What is the aggregate total retail value of the vehicles, engines or units covered?:


Payment Information

| | |
|---------------|---|
| Amount Owed: | <input type="text" value="22,889.00"/> |
| Payment Type: | <input type="text" value="Offline Wire"/> |

Comments:




2017 50-STATE (NAS) 2.4L FFV BU
Test Group: HCRXJ02.45PA

| FCA US LLC | | VEHICLE EMISSION CONTROL INFORMATION | |
|--|--|---|--|
| GROUP: HCRXJ02.45PA NO ADJUSTMENTS NEEDED HO2S / SFI / TWC / WR - HO2S | | EVAP: HCRXR0116PKB | CONFORMS TO REGULATIONS: 2017 MY FFV ENGINE: 2.4L |
| U.S. EPA: T3 B110 LDV OBD: CA OBD II FUEL: GASOLINE / ETHANOL | | 47480 815AA | |
| CA: OBD: CA OBD II FUEL: GASOLINE / ETHANOL CERTIFIED FOR SALE ULEV II QUALIFIED. | |  | |

HCRXJ02.45PA Part 1 Section 15-100 (2017)




2017 50-STATE (NAS) 2.4L FFV KL
Test Group: HCRXJ02.45PA

| FCA US LLC | | VEHICLE EMISSION CONTROL INFORMATION | |
|---|--|---|--|
| GROUP: HCRXJ02.45PA NO ADJUSTMENTS NEEDED HO2S / SFI / TWC / WR - HO2S | | EVAP: HCRXR0118PPB | CONFORMS TO REGULATIONS: 2017 MY FFV ENGINE: 2.4L |
| U.S. EPA: T3 B110 LDV OBD: CA OBD II FUEL: GASOLINE / ETHANOL | | 47480 852AA | |
| CA: OBD: CA OBD II FUEL: GASOLINE / ETHANOL This vehicle conforms to federal regulations and is certified for sale in California. | |  | |

HCRXJ02.45PA Part 1 Section 15-101 (2017)



2017 50-STATE (NAS) 2.4L FFV UF
Test Group: HCRXJ02.45PA

| FCA US LLC | | VEHICLE EMISSION CONTROL INFORMATION | |
|---|--|---|--|
| GROUP: HCRXJ02.45PA NO ADJUSTMENTS NEEDED HO2S / SFI / TWC / WR – HO2S | | EVAP: HCRXR0118PPA | CONFORMS TO REGULATIONS: 2017 MY FFV ENGINE: 2.4L |
| U.S. EPA: T3 B110 LDV OBD: CA OBD II FUEL: GASOLINE / ETHANOL | | 47480 853AA | |
| CA: OBD: CA OBD II FUEL: GASOLINE / ETHANOL This vehicle conforms to federal regulations and is certified for sale in California. | |  | |

HCRXJ02.45PA Part 1 Section 15-102 (2017)